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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/537,560	06/03/2005 Kamil Zerouk		36.0164-PCT-US	4708
WesternGeco	7590 10/29/2007		EXAM	INER
Intellectual Property Department			LOBO, IAN J	
P O Box 2469 Houston, TX 7	7252-2469		ART UNIT	PAPER NUMBER
			3662	
•				
		·	MAIL DATE	DELIVERY MODE
		•	10/29/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

•		Application No.	Applicant(s)			
		10/537,560	ZEROUK, KAMIL			
Office Action Summary		Examiner	Art Unit			
		lan J. Lobo	3662			
Period fe	The MAILING DATE of this communication app	ears on the cover sheet wi	th the correspondence address			
A SH WHIC - Exte after - If NC - Failu Any	IORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING Downsions of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. Disperiod for reply is specified above, the maximum statutory period were to reply within the set or extended period for reply will, by statute reply received by the Office later than three months after the mailing led patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNION  36(a). In no event, however, may a rivil apply and will expire SIX (6) MON, cause the application to become AB	CATION. reply be timely filed ITHS from the mailing date of this communication. BANDONED (35 U.S.C. § 133).			
Status	ed patent term adjustment. God of Grit 1.75-(g).					
	Responsive to communication(s) filed on 23 A	uaust 2007.				
,	This action is <b>FINAL</b> . 2b)⊠ This action is non-final.					
/	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
	closed in accordance with the practice under E	x parte Quayle, 1935 C.D	). 11, 453 O.G. 213.			
Disposit	ion of Claims					
5)□ 6)⊠ 7)□	Claim(s) <u>1-16</u> is/are pending in the application.  4a) Of the above claim(s) is/are withdraw Claim(s) is/are allowed.  Claim(s) <u>1-16</u> is/are rejected.  Claim(s) is/are objected to.  Claim(s) are subject to restriction and/or	vn from consideration.				
Applicat	ion Papers					
10)	The specification is objected to by the Examine The drawing(s) filed on is/are: a) accelerated accelerated and applicant may not request that any objection to the Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the Ex	epted or b) objected to during on be held in abeyang ion is required if the drawing on the drawing or the drawi	nce. See 37 CFR 1.85(a). (s) is objected to. See 37 CFR 1.121(d).			
Priority (	under 35 U.S.C. § 119					
12)[_ a)	Acknowledgment is made of a claim for foreign  All b) Some * c) None of:  1. Certified copies of the priority documents  2. Certified copies of the priority documents  3. Copies of the certified copies of the priorical application from the International Bureausee the attached detailed Office action for a list	s have been received. s have been received in A ity documents have been ı (PCT Rule 17.2(a)).	pplication No received in this National Stage			
Attachmen	ot(s)					
1) Notice 2) Notice 3) Information	the of References Cited (PTO-892) the of Draftsperson's Patent Drawing Review (PTO-948) the mation Disclosure Statement(s) (PTO/SB/08) the No(s)/Mail Date	Paper No(s	Summary (PTO-413) S)/Mail Date Informal Patent Application 			

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#### **DETAILED ACTION**

## Claim Rejections - 35 USC § 101

1. 35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

2. Claim 16 is rejected under 35 U.S.C. 101 because the claimed invention is directed to non-statutory subject matter.

Specifically, 35 USC 101 states that a claim should be directed to a single statutory class of invention. The instant claim claims two statutory classes of invention, "a storage medium" (apparatus) and "a program for executing" (method).

# Claim Rejections - 35 USC § 112

- 2. The following is a quotation of the second paragraph of 35 U.S.C. 112:
  - The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 3. Claim 16 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

A single claim which claims both an apparatus and the method steps for using the apparatus is indefinite because it is unclear which category of invention is being claimed. If allowed to claim the combination of two separate statutory classes of invention, a manufacturer or seller of the claimed apparatus would not know from the

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claim whether it might also be liable for contributory infringement because a buyer or user of the apparatus later performs the claimed method of using the apparatus.

## Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 5. Claims 1-15 are rejected under 35 U.S.C. 103(a) as being unpatentable over the patent to Favret ('995) in view of Ozbek ('007).

Favret discloses a method and apparatus (see col. 5, lines 8-28) for processing seismic data, the data being in the frequency-space domain. The method includes determining a spatial filter (prediction filter) from the seismic data at a first frequency at which noise is not present and applying the filter to seismic data at a second frequency at which the noise is present.

The difference between the system and method disclosed in Favret and claims 1, 6, 9 and 14 of the instant application is the claims specify attenuating "swell noise" in the seismic data whereas Favret discloses (col. 2, lines 21-24) attenuating "both coherent and random noise" in the seismic data.

Ozbek teaches (see abstract) that coherent noise includes swell noise.

Therefore, in view of Ozbek, it would be obvious to one of ordinary skill in the art that

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the system and method disclosed in Favret for attenuating coherent noise would inherently attenuate swell noise. Claims 1, 6, 9 and 14 are so rejected.

Dependent claims 2-5, 7, 8, 10-13 and 15 are further provided by the combination of the above noted prior art.

## Response to Arguments

- 6. Applicant's arguments with respect to claims 1, 6, 9 and 14 have been considered but are most in view of the new ground(s) of rejection.
- 7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to lan J. Lobo whose telephone number is (571) 272-6974. The examiner can normally be reached on Monday Friday, 6:30 3:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Thomas H. Tarcza can be reached on (571) 272-6979. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Tan J. Lobo
Primary Examiner

Primary Examiner
Art Unit 3662